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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/965,592	09/26/2001	Gaurang K. Shah	062891.0550	3496
7:	590 11/21/2005		EXAMINER	
Baker Botts L.L.P.			OSMAN, RAMY M	
Suite 600 2001 Ross Avenue			ART UNIT	PAPER NUMBER
Dallas, TX 75201-2980			2157	

DATE MAILED: 11/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)				
		09/965,592	SHAH ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Ramy M. Osman	2157				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - External after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLICHEVER IS LONGER, FROM THE MAILING Designs of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period or reto reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
·	Responsive to communication(s) filed on <u>19 August 2005</u> .  This action is <b>FINAL</b> . 2b) This action is non-final.						
<i>'</i> =	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٧,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
	☑ Claim(s) <u>1-20</u> is/are rejected.						
	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
•—	,	kaminer. Note the attached Office	Action of form F 10-132.				
	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	• •						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal P	atent Application (PTO-152)				
Pape	r No(s)/Mail Date	6)					

#### **DETAILED ACTION**

### Status of Claims

1. This action is responsive to the amendment filed on August 19, 2005. Applicant amended claims 3-5. Claims 1-20 are pending.

# Response to Amendment

- 2. Examiner acknowledges amendment filed on 8/19/2005.
- 3. Examiner withdraws objections to claims 3 and 11 in light of the amendments.
- 4. Examiner withdraws 112 second paragraph rejections to claims 1-20 in light of the amendments.

#### Response to Arguments

- 5. Applicant's arguments filed 8/19/2005 have been fully considered but they are not persuasive.
- 6. Applicant argues that Brendel fails to teach "a load balancer to provide identifying information associated with a gateway being managed by the load balancer to a client terminal".

In reply, Brendel does in fact teach this because the cached IP address is itself the redirect message. The claim is broad and can be broadly interpreted in this manner because Brendel performs redirection via this IP address, and that is what is used to inherently identify the gateway (column 4 lines 40-67).

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## Claim Rejections - 35 USC § 102

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7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 8. Claims 1,7-13,15-17 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Brendel et al. (U.S. Patent No. 5,774,660) in view of Swildens et al (US Patent No. 6,754,706).
- 9. In reference to claim 1, Brendel teaches a method for re-directing a client session, comprising:

receiving a request from a client terminal at a load balancer (column 2 lines 17-35 and column 4 lines 48-60, Brendel teaches a load balancing router);

selecting one of a plurality of gateways being managed by the load balancer to process the request (column 4 lines 51-58);

sending a re-direct message to the client terminal from the load balancer, the re-direct message including information identifying the selected gateway (column 3 lines 33-38 and column 4 lines 41-65, Brendel teaches a client browser (10) receiving redirection to a single IP address (column 4 line 45) from a DNS server regarding an identified web site. The client caches this IP address, which from the clients perspective inherently represents a selected server.)

Brendel fails to teach where the DNS server and the load balancer are located on the same device. However, Swildens teaches a load balancing DNS server which determines an available

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content server to service a user request. The determined content server is returned to the user for load balancing purposes (column 2 lines 50-60, column 4 lines 40-50 and column 5 lines 2-12).

It would have been obvious for one of ordinary skill in the art to modify Brendel by returning the determined content server to the user for the purpose of optimizing network traffic through load balancing.

10. In reference to claim 13, Brendel teaches an apparatus for re-directing a client session, comprising:

means for receiving a request from a client terminal (column 2 lines 17-35 and column 4 lines 48-60, Brendel teaches a load balancing router);

means for selecting one of a plurality of gateways to process the request (column 4 lines 51-58);

means for sending a re-direct message to the client terminal, the re-direct message including information identifying the selected gateway (column 3 lines 33-38 and column 4 lines 41-65, Brendel teaches a client browser (10) receiving redirection to a single IP address (column 4 line 45) from a DNS server regarding an identified web site. The client caches this IP address, which from the clients perspective inherently represents a selected server.) Brendel fails to teach where the DNS server and the load balancer are located on the same device. However, Swildens teaches a load balancing DNS server which determines an available content server to service a user request. The determined content server is returned to the user for load balancing purposes (column 2 lines 50-60, column 4 lines 40-50 and column 5 lines 2-12).

through load balancing.

It would have been obvious for one of ordinary skill in the art to modify Brendel by returning the determined content server to the user for the purpose of optimizing network traffic

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- 11. In reference to claim 7, Brendel teaches the method of Claim 1, further comprising:
  maintaining an association between the client terminal and the selected gateway at the
  load balancer (column 4 lines 40-65).
- 12. In reference to claim 8, Brendel teaches the method of Claim 1, wherein the information identifying the selected gateway includes an Internet Protocol address of the selected gateway (column 4 lines 40-65 and column 9 lines 15-40).
- 13. In reference to claim 9, Brendel teaches the method of Claim 8, further comprising: receiving at the load balancer from the client terminal, a subsequent request associated with the re-direct message, the subsequent request including the Internet Protocol address of the selected gateway (column 4 lines 40-65 and column 9 lines 15-40).
- 14. In reference to claim 10, Brendel teaches the method of Claim 9, further comprising: forwarding the subsequent request to the selected gateway from the load balancer, the subsequent request including the Internet Protocol address of the selected gateway (column 4 lines 40-65 and column 9 lines 15-40).
- 15. In reference to claim 11, Brendel teaches the method of Claim 10, further comprising: receiving a response to the subsequent request from the selected gateway, the response including the Internet Protocol address of the selected gateway (column 4 lines 40-65 and column 9 lines 15-40);

forwarding the response to the client terminal (column 4 lines 55-65).

In reference to claim 12, Brendel teaches the method of Claim 1, further comprising: 16. maintaining an association between the client terminal and the selected gateway (column 4 lines 40-55 and column 9 lines 15-40).

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- In reference to claim 15, Brendel teaches the method of Claim 13, wherein the 17. information associated with the selected gateway is an Internet Protocol address of the selected gateway (column 4 lines 40-65 and column 9 lines 15-40).
- In reference to claim 16, Brendel teaches the apparatus of Claim 13, further comprising: 18. means for maintaining an association between the client terminal and the selected gateway (column 4 lines 40-55 and column 9 lines 15-40).
- In reference to claim 17, Brendel teaches an apparatus for re-directing a client session, 19. comprising:

a load balancer operable to receive an initial request from a client terminal (column 2 lines 17-35 and column 4 lines 48-60, Brendel teaches a load balancing router), the load balancer operable to select one of a plurality of gateways to process the request (column 4 lines 51-58), the load balancer operable to send a re-direct message to the client terminal in response to the request, re-direct message including information identifying the selected gateway (column 3 lines 33-38 and column 4 lines 41-65, Brendel teaches a client browser (10) receiving redirection to a single IP address (column 4 line 45) from a DNS server regarding an identified web site. The client caches this IP address, which from the clients perspective inherently represents a selected server.) Brendel fails to teach where the DNS server and the load balancer are located on the same device. However, Swildens teaches a load balancing DNS server which determines an available content server to service a user request. The determined content server is returned to

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the user for load balancing purposes (column 2 lines 50-60, column 4 lines 40-50 and column 5 lines 2-12).

It would have been obvious for one of ordinary skill in the art to modify Brendel by returning the determined content server to the user for the purpose of optimizing network traffic through load balancing.

- 20. In reference to claim 19, Brendel teaches the apparatus of Claim 17, wherein the load balancer maintains an association between the client terminal and the selected gateway (column 4 lines 40-55 and column 9 lines 15-40).
- Claims 2-6,14,18 and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Brendel et al. (U.S. Patent No. 5,774,660) in view of Swildens et al (US Patent No 6,754,706) in further view of Kitai (US Patent No 6,404,766).
- 22. In reference to claim 2, Brendel teaches the method of Claim 1. Brendel fails to teach wherein the information identifying the selected gateway may include a private port number associated with the selected gateway. However, Kitai teaches a client communicating with a local server. The local server has a port number #n-c-rs (equivalent to a private port number), intermediate a remote server (equivalent to applicants selected gateway), and which is used for communication from the client to the local server, for the purpose of efficient flow control (column 2 lines 36-67, column 5 lines 40-44 and column 5 line 65 column 6 line 10).

It would have been obvious for one of ordinary skill in the art to modify Brendel by including a port number as per the teachings of Kitai for the purpose of providing a gateway

between a client and a network that will provide flow control, congestion control and port/address translation.

23. In reference to claim 3, Brendel teaches the method of Claim 2, further comprising: receiving at the load balancer from the client terminal a subsequent request associated with the re-direct message, the subsequent request including the private port number associated with the selected gateway (column 4 lines 59-64 and column 9 lines 15-40);

Brendel teaches address translation (column 4 lines 59-64). Brendel fails to explicitly teach translating at the load balancer the port number associated with the selected gateway to an actual port number of the selected gateway. However, Kitai teaches that the local server converts from port number #n-c-rs, on which it receives a request packet from the client, to the port number #n-s-rs, on which it forwards the packet to the remote server (i.e. the selected gateway) (see column 2 lines 36-67, column 5 lines 40-44 and column 5 line 65 – column 6 line 10).

It would have been obvious for one of ordinary skill in the art to modify Brendel by including a port number for port translation as per the teachings of Kitai for the purpose of providing a gateway between a client and a network that will provide flow control, congestion control and port/address translation.

- In reference to claim 4, Brendel teaches the method of Claim 3 above, further comprising: forwarding the subsequent request to the selected gateway, the subsequent request including the actual port number of the selected gateway (Kitai, column 2 lines 36-67, column 5 lines 40-44 and column 5 line 65 column 6 line 10).
- 25. In reference to claim 5, Brendel teaches the method of Claim 4, further comprising:

receiving a response to the subsequent request from the selected gateway, the response including the actual port number of the selected gateway; translating the actual port number of the selected gateway to the private port number associated with the selected gateway (Kitai, column 2 lines 36-67, column 5 lines 40-44 and column 5 line 65 – column 6 line 10).

- 26. In reference to claim 6, Brendel teaches the method of Claim 5, further comprising: forwarding the response to the client terminal, the response including the private port number associated with the selected gateway (Kitai, column 5 lines 40-44 and column 5 line 65 column 6 line 10).
- 27. In reference to claim 14, Brendel teaches the apparatus of Claim 13. Brendel fails to teach wherein the information identifying the selected gateway may include a private port number associated with the selected gateway. However, Kitai teaches a client communicating with a local server. The local server has a port number #n-c-rs (equivalent to a private port number), intermediate a remote server (equivalent to applicants selected gateway), and which is used for communication from the client to the local server, for the purpose of efficient flow control (column 2 lines 36-67, column 5 lines 40-44 and column 5 line 65 column 6 line 10).

It would have been obvious for one of ordinary skill in the art to modify Brendel by including a port number as per the teachings of Kitai for the purpose of providing a gateway between a client and a network that will provide flow control, congestion control and port/address translation.

28. In reference to claim 18, Brendel teaches the apparatus of Claim 17, wherein the load balancer receives a subsequent request from the client terminal, the subsequent request including the information identifying the selected gateway, the load balancer operable to forward the

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request to the selected gateway (Kitai, column 2 lines 36-67, column 5 lines 40-44 and column 5 line 65 – column 6 line 10).

- 29. In reference to claim 20, Brendel teaches the apparatus of Claim 17, wherein the information identifying the selected gateway includes one of a private port number associated with the selected gateway and an Internet Protocol address of the selected gateway (Kitai, column 2 lines 36-67, column 5 lines 40-44 and column 5 line 65 column 6 line 10).
- 30. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramy M. Osman whose telephone number is (571) 272-4008. The examiner can normally be reached on M-F 9-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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RMO

November 9, 2005

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